### Rec'd PCT/PTO 17 MAR 2006

#### PATENT COOPERATION TREATY

### **PCT**

10/561347

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 0008-CA323WO	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/US2004/019587	International filing date (day/month/year) 18 June 2004 (18.06.2004)	Priority date (day/month/year) 20 June 2003 (20.06.2003)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant CRS HOLDINGS, INC.					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).				
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	3. This report contains indications relating to the following items:				
	Box No. I Basis of the report				
Box No. II Priority					
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity of invention  Reasoned statement under Article 35(2) with regard to novelty, inventive step or in applicability; citations and explanations supporting such statement					
	Box No. VI	Certain documents cited  Certain defects in the international application  Certain observations on the international application			
	Box No. VII				
	Box No. VIII				
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
Date of issuance of this report 03 January 2006 (03.01.2006)					
	The International Bure 34, chemin des Col 1211 Geneva 20, Sv	ombettes	Authorized officer  Beate Giffo-Schmitt		
Facsi	mile No. +41 22 740 14 35	WILLOW HAIR	Telephone No. +41 22 338 87 20		

Form PCT/IB/373 (January 2004)

#### **PATENT COOPERATION TREATY**

From 1	the			1.0	REC'D 04	NOV 2004
	RNATIONAL SEAF	RCHING AUTHO	ORITY	09/11	WIPO	PCT
To:				$\mathcal{P}' \setminus \mathcal{P}'$	PCT	
	see form F	PCT/ISA/220			TEN OPINION OF T	
				INTERNATIONAL SEARCHING AUTHORITY		
				(PCT Rule 43 <i>bis</i> .1)		
				Date of mailing		
					e form PCT/ISA/210 (second s	iheet)
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	cant's or agent's file form PCT/ISA/22			FOR FURTHER See paragraph 2 belo	- <del>-</del>	
	national application f		International filing date		Priority date (day/month/yea	ar)
	MUS2004/01958		18.06.2004		20.06.2003	•
Inter	national Patent Class	sification (IPC) or	both national classification	and IPC	<u> </u>	
	F3/15, B22F3/12					
Appl	icant					
	S HOLDINGS, IN	NC.				
1.	This opinion co	ontains indicati	ons relating to the fo	llowing items:		
1.	_			nowing nome.		
	⊠ Box No. I	Basis of the or	oinion .		•	
	⊠ Box No. II	Priority			us stan and industrial appl	ioability
	☐ Box No. III			gard to noverty, invent	ve step and industrial appl	icability
	☐ Box No. IV ☐ Box No. V	Lack of unity of		is 1(a)(i) with regard to	novelty, inventive step or	industrial
	ES BOX NO. V	applicability; c	itations and explanation	ns supporting such sta	tement	
	☐ Box No. VI	Certain docum	nents cited			
	Box No. VII	Certain defect	s in the international ap			
	☑ Box No. Viii	Certain obser	vations on the internation	onal application		
2.	FURTHER ACT	ION				
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
	For further options, see Form PCT/ISA/220.					
3.	3. For further details, see notes to Form PCT/ISA/220.					
Nan	ne and mailing addre	ess of the ISA:		Authorized Officer		



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Authorized Chice

Alvazzi Delfrate, M
Telephone No. +49 89 2399-8444



# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/019587

_	Box N	lo. I	Basis of the opinion
۱.	With r	egard	I to the <b>language</b> , this opinion has been established on the basis of the international application in ge in which it was field, unless otherwise indicated under this item.
	la (t	angua under	Rules 12.3 and 23.1(b)).
2.	With i	regard ssary	d to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. typ	e of n	naterial:
		as	equence listing
		tab	ele(s) related to the sequence listing
	b. for	mat o	of material:
		in v	written format
		l in (	computer readable form
	c. tim	ne of f	filing/furnishing:
		l co	ntained in the international application as filed.
		] file	ed together with the international application in computer readable form.
		] fui	rnished subsequently to this Authority for the purposes of search.
3		has b	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as opriate, were furnished.
4	I. Addi	itiona	I comments:

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/019587

	Вох	No. II	Priority			
1.	. Mark The following document has not been furnished:					
			copy of the earlier a	pplication	whose prio	ority has been claimed (Rule 43bis.1 and 66.7(a)).
			translation of the ea	ırlier appli	cation whos	se priority has been claimed (Rule 43bis.1 and 66.7(b)).
Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.						er the validity of the priority claim. This opinion has on that the relevant date is the claimed priority date.
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.					
3.	3. Additional observations, if necessary:					
-	Box indi	No. V	Reasoned stater applicability; citation	nent und	er Rule 43/ explanation	bis.1(a)(i) with regard to novelty, inventive step or supporting such statement
1.	Stat	ement				
	Nov	elty (N	)	Yes: No:	Claims Claims	1,6
	Inve	entive s	step (IS)	Yes: No:	Claims Claims	2-5, 7-10
	Indu	ustrial a	applicability (IA)	Yes: No:	Claims Claims	1-10
2			and explanations		·	

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

- Claim 1 is unclear because the wording "a desired amount of porosity" does not specify which porosity is actually intended and can even comprise 100% dense, i.e. zero porosity materials (cf. page 6, line 5-7). The same objection applies to claim 6.
- The unclear wording "a desired amount of porosity" has no limiting effect and cannot be used to distinguish the claimed invention from the prior art. Therefore the subject-matter of claim 1 lacks novelty in view of a conventional ROC process as disclosed for instance in D1 Fig. 6 or in D2 (abstract and col. 6 line 38-40).

The same objection applies also to the subject-matter of claim 6 (cf. D1, "Processing of bimetallic parts").

- The dependent claims would not add anything rendering the claimed subjectmatter novel and inventive.
- 4. An amended claim 1 specifying that the process is directed to the production of tools for injection moulding having a porosity sufficient to vent air through the walls (cf. page 4, line 5-6) would meet the objections above while not adding subject-matter which was not originally disclosed.